

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P510534

Luminaire Tested: **CST-CA10-630-727-U-T5R**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-630-727-U-T5R
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 83619 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

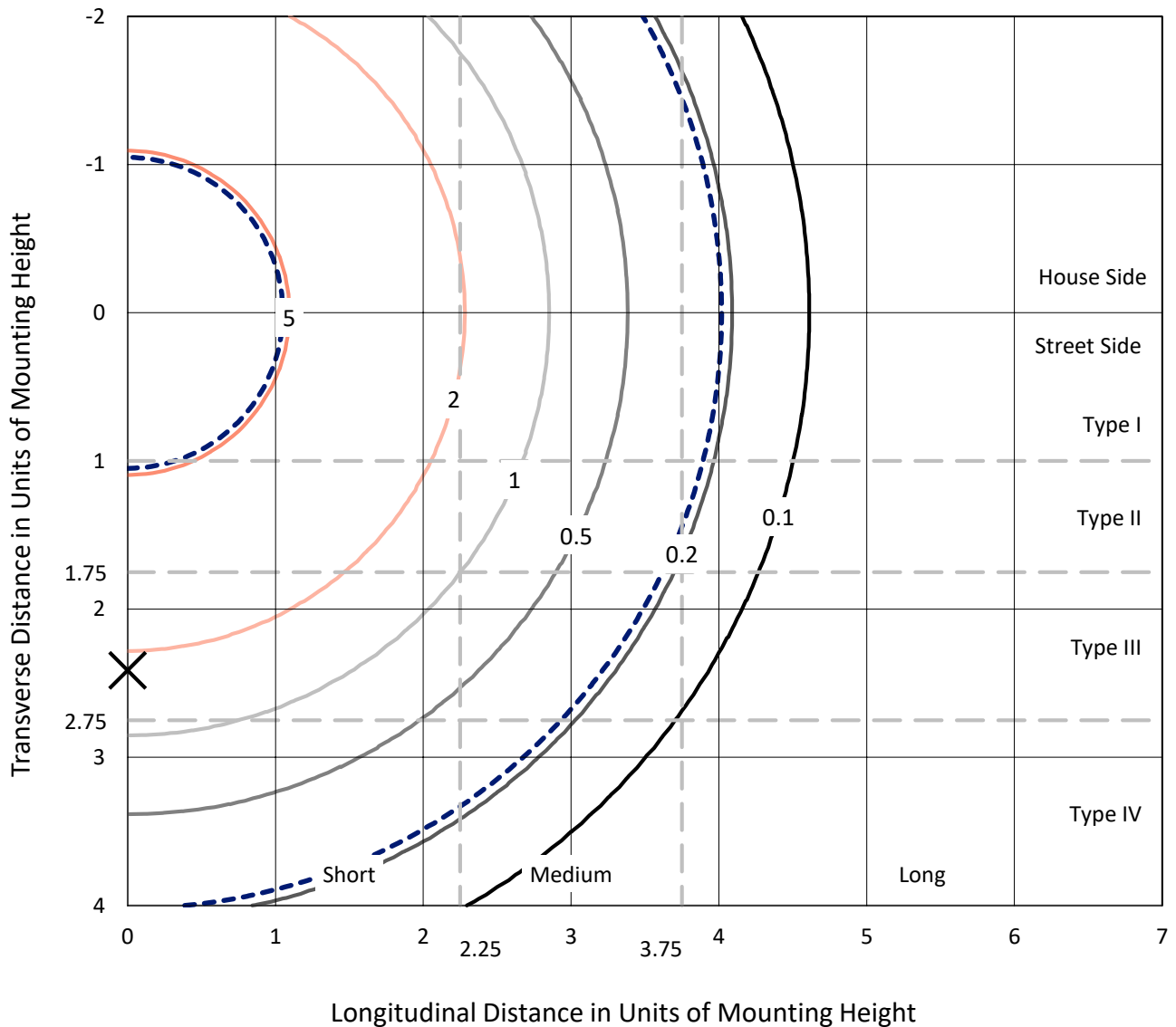
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

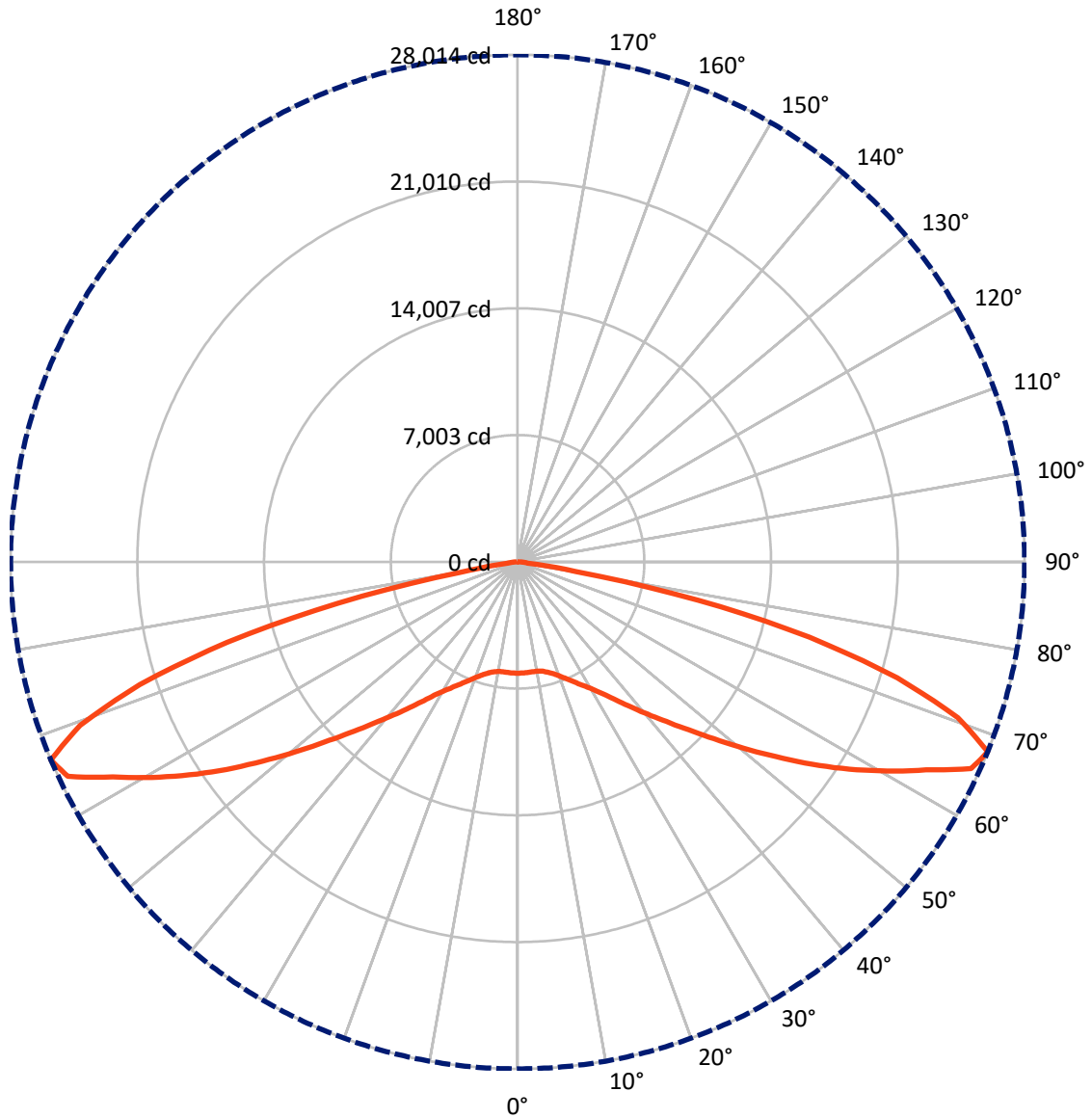
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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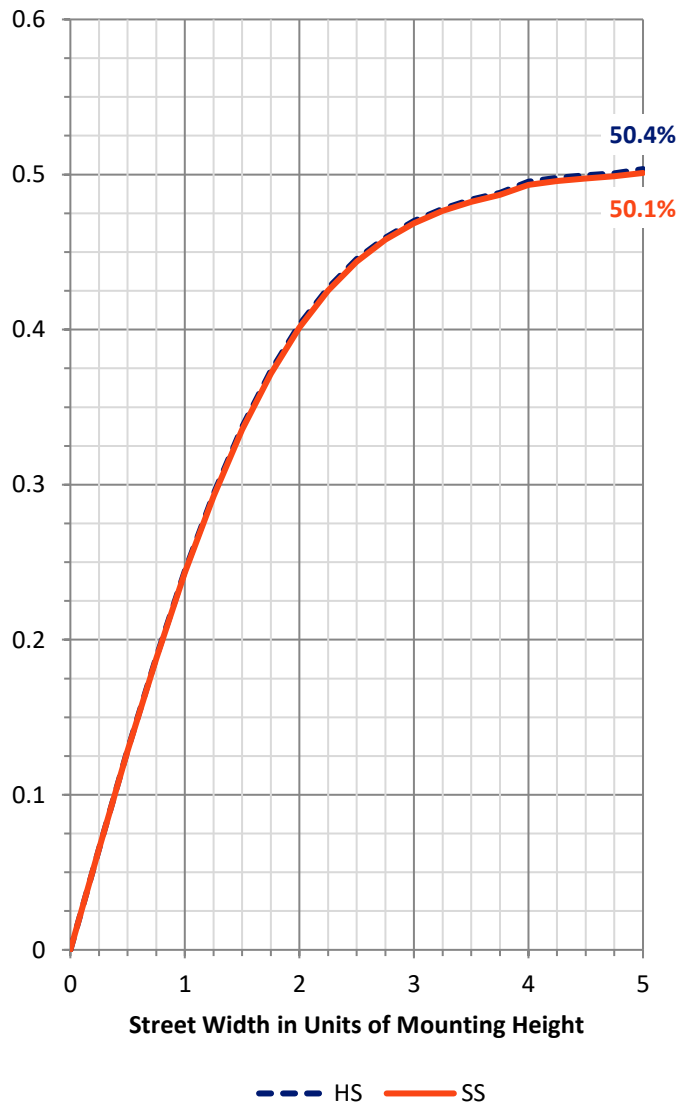
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	41809.5	0.0	41809.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	41809.5	0.0	41809.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	83619.0	0.0	83619.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.9	0.7
10°-20°	1815.8	2.2
20°-30°	3445.8	4.1
30°-40°	5984.9	7.2
40°-50°	10417.2	12.5
50°-60°	17796.7	21.3
60°-70°	26209.2	31.3
70°-80°	16660.7	19.9
80°-90°	702.7	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	83619.0	100.0
0°-180°	83619.0	100.0

Coefficient of Utilization



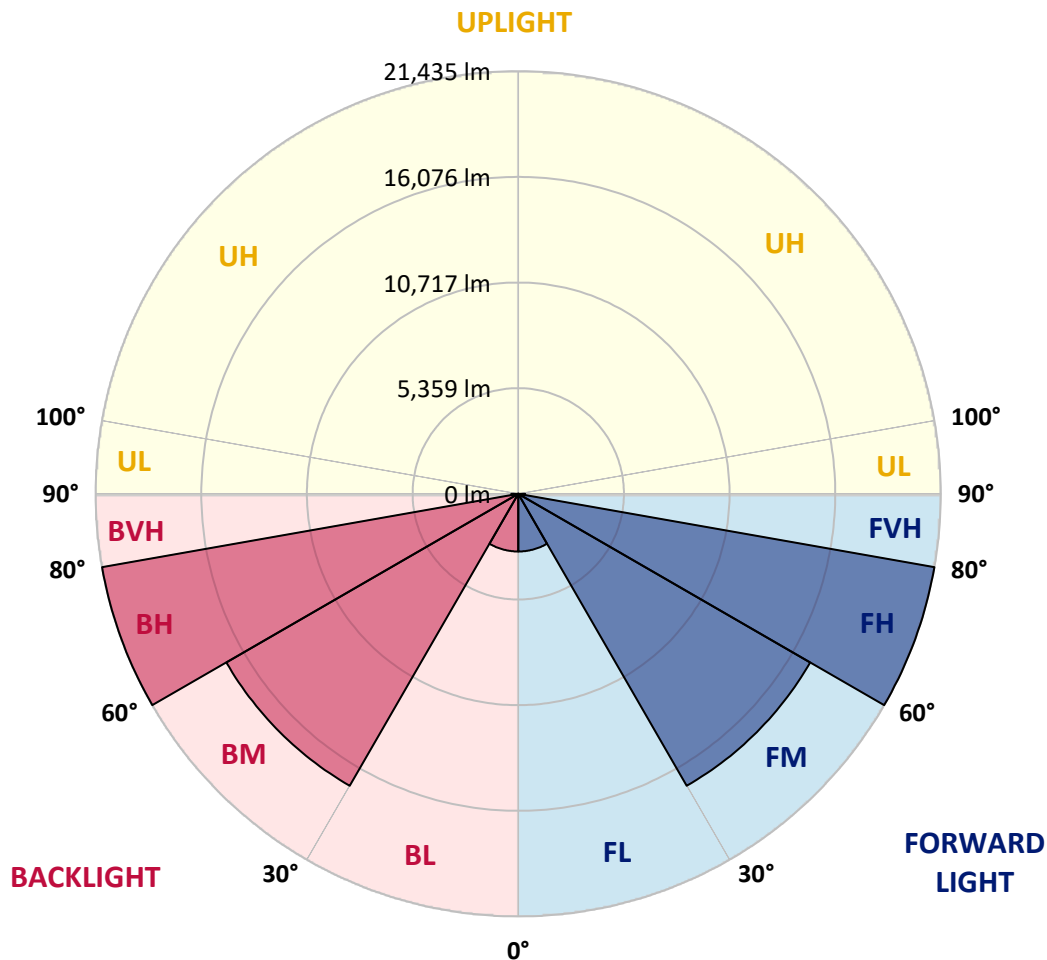
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2923.8	3.5			
FM (30°-60°)	17099.4	20.4			
FH (60°-80°)	21435.0	25.6			G5
FVH (80°-90°)	351.4	0.4			G3/500
BL (0°-30°)	2923.8	3.5	B4/5000		
BM (30°-60°)	17099.4	20.4	B5		
BH (60°-80°)	21435.0	25.6	B5		G5
BVH (80°-90°)	351.4	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6150.6
2.5°	6152.2
5°	6140.1
7.5°	6129.9
10°	6140.2
12.5°	6206.2
15°	6333.5
17.5°	6511.5
20°	6753.2
22.5°	7038.6
25°	7374.9
27.5°	7739.3
30°	8167.9
32.5°	8694.5
35°	9386.1
37.5°	10182.2
40°	11066.9
42.5°	12061.2
45°	13241.1
47.5°	14602.0
50°	16178.2
52.5°	17880.6
55°	19748.3
57.5°	21613.4
60°	23468.2
62.5°	25328.4
65°	27543.1
67.5°	28013.5
70°	25808.7
72.5°	21951.5
75°	16666.3
77.5°	10189.2
80°	3234.0
82.5°	549.0
85°	310.2
87.5°	112.3
90°	0.0

(END OF REPORT)